

WHAT IS CLAIMED IS:

1. A small electronic device comprising:

a battery;

5 a battery level detection unit for detecting a charge level of the battery;

a display unit for displaying various data; and

a communication unit for exchanging data with an external device,

10 wherein the small electronic device receives battery level data of the external device detected by the external device, compares the data with its own battery level data output from the battery level detection unit, and displays a comparison result on the display unit.

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2. A small electronic device according to claim 1, wherein the comparison result comprises lower battery level data selected from the battery level data of the external device and the battery level data of the small electronic device.

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3. A small electronic device according to claim 1, wherein the small electronic device is a portable PC device.

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4. A small electronic device according to claim 1, wherein the external device is a cellular phone.

5. A small electronic device comprising:
a battery;
a battery level detection unit for detecting a charge
5 level of the battery;
a display unit for displaying various data; and
a communication unit for exchanging data with an
external device,

10 wherein the small electronic device receives
operating time data of the external device calculated from
a battery level detected by the external device, compares
the data with its own operating time data calculated from
a battery level output from the battery level detection unit,
and displays a comparison result on the display unit.

15 6. A small electronic device according to claim 5,
wherein the comparison result comprises shorter operating
time data selected from the operating time data of the
external device and the operating time data of the small
20 electronic device.

7. A small electronic device according to claim 5,
wherein the small electronic device is a portable PC device.

25 8. A small electronic device according to claim 5,
wherein the external device is a cellular phone.

9. A monitoring method for monitoring a battery level, comprising the steps of:

detecting a battery level at a first small electronic device;

transmitting battery level data from the first small electronic device;

receiving the battery level data at a second small electronic device;

detecting a battery level at the second small electronic device;

comparing the battery level data of the first small electronic device with battery level data of the second small electronic device; and

displaying a comparison result at the second small electronic device.

10. The monitoring method according to claim 9, wherein the transmitting of the battery level data is triggered by satisfying predetermined conditions.

11. The monitoring method according to claim 9, wherein the transmitting of the battery level data is triggered in response to a request from the second small electronic device.

12. The monitoring method according to claim 9,
wherein the comparison result in the displaying step
comprises lower battery level data selected from the
battery level data of the first small electronic device and
5 the battery level data of the second small electronic
device.

13. A monitoring method for monitoring a battery
level, comprising the steps of:

10 detecting a battery level at a first small electronic
device;

calculating a operating time from the battery level
at the first small electronic device;

15 transmitting operating time data from the first small
electronic device;

receiving the operating time data at a second small
electronic device;

detecting a battery level at the second small
electronic device;

20 calculating a operating time from the battery level
at the second electronic device;

comparing the operating time data of the first small
electronic device with operating time data of the second
small electronic device; and

25 displaying a comparison result at the second small
electronic device.

14. The monitoring method according to claim 13,
wherein the transmitting of the operating time data is
triggered by satisfying predetermined conditions.

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15. The monitoring method according to claim 13,
wherein the transmitting of the operating time data is
triggered in response to a request from the second small
electronic device.

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16. The monitoring method according to claim 13,
wherein the comparison result in the displaying step
comprises shorter operating time data selected from the
operating time data of the first small electronic device
and the operating time data of the second small electronic
device.

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17. A battery housing attached to a small electronic
device as a driving power source, comprising:

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a battery;

a battery level detection unit for detecting a charge
level of the battery; and

a communication unit for transmitting the charge
level to an external device to display a comparison result
between the charge level of the small electronic device and
a charge level of the external device.

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